

Claims

1. An electronic device comprising a housing, a transducer and a retainer for mounting the transducer on the housing, the retainer including a first portion for co-operation with a second portion on the housing to attach the retainer to the housing over the transducer.

2. A device according to claim 1, wherein the first and second portions are configured so that, when the retainer is placed on the housing over the transducer with said first and second portions in engagement, rotation of the retainer attaches it to the housing and mounts the transducer thereto.

3. A device according to claim 2, wherein the retainer is attached to the housing by means of a bayonet type fitting.

4. A device according to claim 3, wherein the retainer has a substantially planar portion for contact with the upper surface of the transducer.

5. A device according to claim 4, wherein said substantially planar portion is an annular ring.

6. A device according to claim 5, wherein the first portion on the retainer comprises a plurality of connecting lugs parallel to and spaced from the annular ring which are received in the second portion on the housing.

7. A device according to claim 6, wherein the connecting lugs extend from the ends of spacing walls depending substantially at right angles from the outer periphery of the annular ring.

8. A device according to claim 7, wherein said lugs are spaced equally from each other about the circumference of the annular ring.

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9. A device according to claim 8, wherein each lug has a tapered surface for engagement with the housing when the retainer is attached thereto.

10. A device according to claim 9, wherein the retainer includes a spring for biasing the transducer and the connecting lugs against the housing when the retainer is attached thereto.

11. A device according to claim 10, wherein the spring comprises at least one region of the substantially planar annular ring which is deformed out of the plane of said ring, said region being deflected back ~~toward~~ the plane of said ring when in contact with the upper surface of a transducer and the retainer is rotated to attach it to the housing, the resilience of the ~~or~~ each region biasing the transducer towards the housing.

12. A device according to claim 1, wherein the housing has a circular seat for the transducer including a cylindrical peripheral wall to surround the transducer, the second portion on the housing including a plurality of sockets in the peripheral wall.

13. A device according to claim 12, wherein each socket has an axially extending opening in the upper edge of the wall for insertion of the first portion on the retainer, and a circumferential undercut in the wall extending from the opening to receive the first portion on the retainer upon rotation thereof.

14. A mobile telephone comprising the device according to claim 1.

15. A method of attaching a transducer to an electronic device according to claim 1, comprising placing the transducer on the housing, moving the retainer towards the housing and over the transducer such that the first and second portion engage, and rotating the retainer to connect the retainer to the housing and mount the transducer thereto.

16. A housing for a mobile telephone having a recess therein and a cover mounted on the housing over the recess, the cover and the housing together forming an acoustic duct in the region of the recess.

5 17. A housing according to claim 16, wherein the housing has an aperture therein so that a transducer mounted on one surface of the housing is in communication with the acoustic duct on the other side of the housing.

10 18. A housing according to claim 17, wherein the edge of the cover locates within a shoulder formed on the housing, wherein the recess extends across the housing so that a portion of the edge of the cover in the region of the recess is not in contact with the housing to form an outlet.

15 19. A housing according to claim 18, wherein the cover is arcuate in shape.

20 20. A housing according to claim 19, wherein the recess is arcuate in shape to form a concave depression in the rear surface of the housing.

25 21. A housing according to claim 20, wherein the outlet is a narrow slit in the joint between the cover and the housing.

22. A housing according to claim 21, wherein the cover includes a first part for co-operation with a second part on the housing to releasably mount the cover on the housing.

23. A housing according to claim 22, wherein the cover is made of metal.

24. An electronic device according to claim 1 and a housing according to claim 16.

25. A mobile telephone comprising an electronic device according to claim 1 and a housing according to claim 16.

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